

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Attorney Docket No.: Baumgarte 7-12In re application of: Frank Baumgarte and Christof FallerSerial No.: Not yet knownGroup No.: Not yet knownFiled: Not yet knownExaminer: Not yet knownMatter No.: 992.1130For: Late Reverberation-Based Synthesis of Auditory Scenes**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 CFR § 1.56, this is an Information Disclosure Statement (IDS) for the above-captioned U.S. patent application. An IDS Form PTO-1449 listing references is enclosed herewith and forms a part hereof.

**Certification Under 37 CFR § 1.704(d)**

- [ ] Each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this statement.

**Certification Under 37 CFR § 1.97(e)**

- [ ] Each item of information contained in this statement was either (1) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement or (2) not known to any individual designated in § 1.56(c) more than three months prior to the filing of this statement.

\* \* \* \* \*

**Certification Under 37 CFR 1.10**"Express Mail" Mailing Label No. EV140153271US

Date of Deposit

4/1/04

I hereby certify that this paper or fee is being deposited with the United States Postal Service's "Express Mail Post Office To Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Gerry Marrero  
(Name of person mailing)

Gerry Marrero  
(Signature of person mailing)

Fee Under 37 CFR § 1.97(c)

☐ The fee for submission of this IDS under § 1.97(c) is \$180.00 as set forth in § 1.17(p).

Petition Under 37 CFR § 1.97(d)

☐ This is a petition requesting consideration of an IDS under § 1.97(d). The petition fee for submission of this IDS under § 1.97(d) is \$180.00 as set forth in § 1.17(p).

Provision of Copies of References

☒ A copy of each of the listed references is enclosed herewith and forms a part hereof.

☐ A translation of each of Reference(s) \_\_\_ is enclosed herewith and forms a part hereof.

☐ A copy of the International Search Report from a corresponding PCT application is enclosed herewith.

☐ A copy of the European Search Report from a corresponding EPO application is enclosed herewith.

☐ The above-captioned U.S. patent application is a

- ☐ continuation
- ☐ divisional
- ☐ continuation-in-part

application of U.S. application serial number \_\_\_\_, filed on \_\_\_\_ as Attorney Docket No. \_\_\_\_.  
Each of the listed references was previously cited by or submitted to the Office in the prior application. The above-captioned U.S. patent application relies upon the prior application for an earlier filing date under 35 U.S.C. 120. Pursuant to § 1.98(d), copies of the listed references are not being provided with this IDS.


Authorization To Charge Deposit Account

☒ Authorization is given to charge **Mendelsohn & Associates, P.C. Deposit Account No. 50-0782** for any fee under § 1.97(c) or § 1.97(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449 form as confirmation that each of the documents has been considered.

Date: 4/1/04  
Customer No. 22186  
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Respectfully submitted,

  
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Enclosures

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Rev. 2-32) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

SERIAL NO.

Baumgarte 7-12  
APPLICANT

Not yet assigned

Frank Baumgarte and Christof Faller  
FILING DATE

GROUP

Not yet assigned

Not yet assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,583,962	12/1996	Davis et al.	395	2.38	
	AB	5,703,999	12/1997	Herre et al.	395	2.12	
	AC	5,930,733	07/1999	Park et al.	702	76	
	AD	US 6,236,731 B1	05/2001	Brennan et al.	381	316	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AE	"Binaural Cue Coding Applied to Stereo and Multi-Channel Audio Compression", by Christof Faller et al., Audio Engineering Society Convention Paper, 112 <sup>th</sup> Convention, Munich, Germany, May 10-13, 2002, pp. 1-9.
	AF	"Advances in Parametric Coding for High-Quality Audio", by Erik Schuijers et al., Audio Engineering Society Convention Paper 5852, 114 <sup>th</sup> Convention, Amsterdam, The Netherlands, March 22-25, 2003, pp. 1-11.
	AG	"Colorless Artificial Reverberation", by M.R. Schroeder et al., IRE Transactions on Audio, pp. 209-214, (Originally Published by: J. Audio Engrg. Soc., Vol. 9, pp. 192-197, July 1961).
	AH	"Efficient Representation of Spatial Audio Using Perceptual Parametrization", by Christof Faller et al., IEEE Workshop on Applications of Signal Processing to Audio and Acoustics 2001, Oct. 21-24, 2001, New Paltz, New York, pp. W2001-01 to W2001-4.
	AI	"3D Audio and Acoustic Environment Modeling" by William G. Gardner, HeadWize Technical Paper, January 2001, pp. 1-11.
	AJ	"Responding to One of Two Simultaneous Message", by Walter Spieth et al., The Journal of the Acoustical Society of America, Volume 26, Number 3, May 1954, pp. 391-396.
	AK	"A Speech Corpus for Multitalker Communications Research", by Robert S. Bolia, et al., J. Acoust. Soc., Am., Vol. 107, No. 2, February 2000, pp. 1065-1066.
	AL	"Synthesized Stereo Combined with Acoustic Echo Cancellation for Desktop Conferencing", by Jacob Benesty et al., Bell Labs Technical Journal, July-September 1998, pp. 148-158.
	AM	"The Role of Perceived Spatial Separation in the Unmasking of Speech", by Richard Freyman et al., J. Acoust. Soc., Am., Vol. 106, No. 6, December 1999, pp. 3578-3588.
	AN	"Text of ISO/IEC 14496-3:2002/PDAM 2 (Parametric coding for High Quality Audio)", by International Organisation for Standardisation ISO/IEC JTC1/SC29/WG11 Coding of Moving Pictures and Audio, MPEG2002 N5381 Awaji Island, December 2002, pp. 1-69.

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.